

**Product fiche relating to:  
The Eco Design for Energy-Related Products  
and Energy Information (Amendment) (EU Exit)  
Regulations 2019**

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<b>Pro Range: Vortex Pro</b>	Symbols	Unit	15-26	26-46	46-70	System 15-26	System 26-46
Condensing boiler			Yes	Yes	Yes	Yes	Yes
Low temperature boiler			No	No	No	No	No
B1 Boiler			No	No	No	No	No
Combination heater			No	No	No	No	No
Rated heat output	$P_{rated}$	kW	26	46	70	26	46
<b>Useful heat output</b>							
At rated heat output and high temp regime	$P_4$	kW	26	46	70	26	46
At 30% of rated heat output and low temp regime	$P_1$	kW	7.8	13.8	21	7.8	13.8
<b>Auxiliary electricity consumption</b>							
At Full load	$e_{lmax}$	kW	0.130	0.148	0.182	0.130	0.148
At part load	$e_{lmin}$	kW	0.039	0.052	0.075	0.039	0.052
In standby mode	$P_{SB}$	kW	0	0	0	0	0
<b>Useful efficiency</b>							
Seasonal space heating energy efficiency	$\eta_s$	%	91.71	90.00	91.61	91.71	90.00
At rated heat output and high temperature regime	$\eta_4$	%	93.6	90.8	90.9	93.6	90.8
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.4	94.4	96.2	96.4	94.4
<b>Other items</b>							
Standby heat loss	$P_{stby}$	kW	0.264	0.301	0.306	0.264	0.301
Ignition burner power consumption	$P_{ign}$	kW	0	0	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-	-	-
Sound power level, indoors	$L_{WA}$	db	50.6	51.1	55.0	50.6	51.1
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120	<120	<120	<120
Emissions Class			2	2	3	2	2
Daily fuel consumption	$Q_{fuel}$	kWh	-	-	-	-	-
Annual fuel consumption	$AFC$	GJ	-	-	-	-	-

<b>Pro Range: Vortex Pro External</b>	Symbols	Unit	15-26	26-46	46-70
Condensing boiler			Yes	Yes	Yes
Low temperature boiler			No	No	No
B1 Boiler			No	No	No
Combination heater			No	No	No
Rated heat output	$P_{rated}$	kW	26	46	70
<b>Useful heat output</b>					
At rated heat output and high temp regime	$P_4$	kW	26	46	70
At 30% of rated heat output and low temp regime	$P_1$	kW	7.8	13.8	21
<b>Auxiliary electricity consumption</b>					
At Full load	$El_{max}$	kW	0.130	0.148	0.182
At part load	$El_{min}$	kW	0.039	0.052	0.075
In standby mode	$P_{SB}$	kW	0	0	0
<b>Useful efficiency</b>					
Seasonal space heating energy efficiency	$\eta_s$	%	91.71	90.00	91.61
At rated heat output and high temperature regime	$\eta_4$	%	93.6	90.8	90.9
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.4	94.4	96.2
<b>Other items</b>					
Standby heat loss	$P_{stby}$	kW	0.264	0.301	0.306
Ignition burner power consumption	$P_{ign}$	kW	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-
Sound power level, indoors	$L_{WA}$	db	50.6	51.1	55.0
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120	<120
Emissions Class			2	2	3
Daily fuel consumption	$Q_{fuel}$	kWh	-	-	-
Annual fuel consumption	$AFC$	GJ	-	-	-

<b>Vortex Range:</b> <b>Vortex Boiler House</b>	Symbols	Unit	15-26	26-46	46-70
Condensing boiler			Yes	Yes	Yes
Low temperature boiler			No	No	No
B1 Boiler			No	No	No
Combination heater			No	No	No
Rated heat output	$P_{rated}$	kW	26	46	70
<b>Useful heat output</b>					
At rated heat output and high temperature regime	$P_4$	kW	26	46	70
At 30% of rated heat output and low temperature regime	$P_1$	kW	7.4	13.8	21
<b>Auxiliary electricity consumption</b>					
At Full load	$el_{max}$	kW	0.154	0.155	0.215
At part load	$el_{min}$	kW	0.047	0.046	0.064
In standby mode	$P_{SB}$	kW	0	0	0
<b>Useful efficiency</b>					
Seasonal space heating energy efficiency	$\eta_s$	%	91.70	90.06	91.66
At rated heat output and high temperature regime	$\eta_4$	%	92.4	90.8	90.9
At 30% of rated heat output and low temperature regime	$\eta_1$	%	97.2	94.4	96.2
<b>Other items</b>					
Standby heat loss	$P_{stby}$	kW	0.091	0.1	0.12
Ignition burner power consumption	$P_{ign}$	kW	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-
Sound power level, indoors	$L_{WA}$	dB	63	61	67
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120	<120
Emissions Class			2	2	3
Daily fuel consumption	$Q_{fuel}$	kWh	-	-	-
Annual fuel consumption	$AFC$	GJ	-	-	-

<b>Pro Range: Vortex Condensing Combi (Vortex Pro Combi)</b>	Symbols	Unit	21	26	36
Condensing boiler			Yes	Yes	Yes
Low temperature boiler			No	No	No
B1 Boiler			No	No	No
Combination heater			Yes	Yes	Yes
Rated heat output	$P_{rated}$	kW	21	26	36
<b>Useful heat output</b>					
At rated heat output and high temperature regime	$P_4$	kW	21	26	36
At 30% of rated heat output and low temperature regime	$P_1$	kW	6.3	7.8	10.8
<b>Auxiliary electricity consumption</b>					
At Full load	$e_{max}$	kW	0.158	0.13	0.15
At part load	$e_{min}$	kW	0.052	0.052	0.039
In standby mode	$P_{SB}$	kW	0.009	0.009	0.009
<b>Declared load profile</b>					
Daily electricity consumption	$Q_{elec}$		0.293	0.23	0.205
Annual electricity consumption	$AEC$		64.5	50.5	45.2
<b>Useful efficiency</b>					
Seasonal space heating energy efficiency	$\eta_s$	%	90.81	91.71	94.56
At rated heat output and high temperature regime	$\eta_4$	%	88.9	93.6	95.1
At 30% of rated heat output and low temperature regime	$\eta_1$	%	97.1	96.4	99.3
<b>Other items</b>					
Standby heat loss	$P_{stby}$	kW	0.23	0.264	0.522
Ignition burner power consumption	$P_{ign}$	kW	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-
Sound power level, indoors	$L_{WA}$	dB	50.6	50.6	53.7
Emissions of nitrogen oxides	$NOx$	mg/kWh	<120	<120	<120
Emissions Class			2	2	2
Water heating efficiency	$\eta_{wh}$	%	68.23	62.6	60.38
Daily fuel consumption	$Q_{fuel}$	kWh	27.2	30	31.1
Annual fuel consumption	$AFC$	GJ	21.556	26.673	24.67

<b>Pro Range: Vortex Outdoor Condensing Combi (Vortex Pro External Combi)</b>	Symbols	Unit	26	36
Condensing boiler			Yes	Yes
Low temperature boiler			No	No
B1 Boiler			No	No
Combination heater			Yes	Yes
Rated heat output	<i>Prated</i>	kW	26	36
<b>Useful heat output</b>				
At rated heat output and high temperature regime	$P_4$	kW	26	36
At 30% of rated heat output and low temperature regime	$P_1$	kW	7.8	10.8
<b>Auxiliary electricity consumption</b>				
At Full load	$el_{max}$	kW	0.13	0.15
At part load	$el_{min}$	kW	0.052	0.039
In standby mode	$P_{SB}$	kW	0.009	0.009
<b>Declared load profile</b>				
Daily electricity consumption	$Q_{elec}$		0.23	0.205
Annual electricity consumption	$AEC$		50.5	45.2
<b>Useful efficiency</b>				
Seasonal space heating energy efficiency	$\eta_s$	%	91.71	94.56
At rated heat output and high temperature regime	$\eta_4$	%	93.6	95.1
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.4	99.3
<b>Other items</b>				
Standby heat loss	$P_{stby}$	kW	0.264	0.522
Ignition burner power consumption	$P_{ign}$	kW	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-
Sound power level, indoors	$L_{WA}$	dB	50.6	53.7
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120
Emissions Class			2	2
Water heating efficiency	$\eta_{wh}$	%	62.6	60.38
Daily fuel consumption	$Q_{fuel}$	kWh	30.0	31.1
Annual fuel consumption	$AFC$	GJ	26.673	24.67

<b>Pro Range: Vortex Outdoor Combi (Vortex Pro External Combi)</b>	<b>Symbols</b>	<b>Unit</b>	<b>21</b>
Condensing boiler			Yes
Low temperature boiler			No
B1 Boiler			No
Combination heater			Yes
Rated heat output	$P_{rated}$	kW	21
<b>Useful heat output</b>			
At rated heat output and high temperature regime	$P_4$	kW	21
At 30% of rated heat output and low temperature regime	$P_1$	kW	6.3
<b>Auxiliary electricity consumption</b>			
At Full load	$el_{max}$	kW	0.158
At part load	$el_{min}$	kW	0.052
In standby mode	$P_{SB}$	kW	0.009
<b>Declared load profile</b>			XL
Daily electricity consumption	$Q_{elec}$		0.293
Annual electricity consumption	$AEC$		65.4
<b>Useful efficiency</b>			
Seasonal space heating energy efficiency	$\eta_s$	%	90.81
At rated heat output and high temperature regime	$\eta_4$	%	88.9
At 30% of rated heat output and low temperature regime	$\eta_1$	%	97.1
<b>Other items</b>			
Standby heat loss	$P_{stby}$	kW	0.23
Ignition burner power consumption	$P_{ign}$	kW	0
Annual energy consumption	$Q_{HE}$	kWh	-
Sound power level, indoors	$L_{WA}$	dB	50.6
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120
Emissions Class			2
Water heating efficiency	$\eta_{wh}$	%	68.23
Daily fuel consumption	$Q_{fuel}$	kWh	30.0
Annual fuel consumption	$AFC$	GJ	21.556

<b>Pro Range:</b> <b>Vortex Pro Combi XS</b>	Symbols	Unit	26
Condensing boiler			Yes
Low temperature boiler			No
B1 Boiler			No
Combination heater			Yes
Rated heat output	<i>Prated</i>	kW	26
<b>Useful heat output</b>			
At rated heat output and high temperature regime	$P_4$	kW	26
At 30% of rated heat output and low temperature regime	$P_1$	kW	8.3
<b>Auxiliary electricity consumption</b>			
At Full load	$el_{max}$	kW	0.167
At part load	$el_{min}$	kW	0.049
In standby mode	$P_{SB}$	kW	0.001
<b>Declared load profile</b>			
Daily electricity consumption	$Q_{elec}$		0.269
Annual electricity consumption	$AEC$		59.2
<b>Useful efficiency</b>			
Seasonal space heating energy efficiency	$\eta_s$	%	92.00
At rated heat output and high temperature regime	$\eta_4$	%	91.92
At 30% of rated heat output and low temperature regime	$\eta_1$	%	97.64
<b>Other items</b>			
Standby heat loss	$P_{stby}$	kW	0.135
Ignition burner power consumption	$P_{ign}$	kW	0
Annual energy consumption	$Q_{HE}$	kWh	-
Sound power level, indoors	$L_{WA}$	dB	49.6
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120
Emissions Class			2
Water heating efficiency	$\eta_{wh}$	%	68.11
Daily fuel consumption	$Q_{fuel}$	kWh	27.3
Annual fuel consumption	$AFC$	GJ	21.6



<b>Vortex Range: Vortex Air</b>	Symbols	Unit	15-26 Boiler
Condensing boiler			Yes
Low temperature boiler			No
B1 Boiler			No
Combination heater			No
Rated heat output	$P_{rated}$	kW	26
<b>Useful heat output</b>			
At rated heat output and high temperature regime	$P_4$	kW	26
At 30% of rated heat output and low temperature regime	$P_1$	kW	8.3
<b>Auxiliary electricity consumption</b>			
At Full load	$el_{max}$	kW	0.167
At part load	$el_{min}$	kW	0.049
In standby mode	$P_{SB}$	kW	0.001
<b>Useful efficiency</b>			
Seasonal space heating energy efficiency	$\eta_s$	%	92.00
At rated heat output and high temperature regime	$\eta_4$	%	91.92
At 30% of rated heat output and low temperature regime	$\eta_1$	%	97.64
<b>Other items</b>			
Standby heat loss	$P_{stby}$	kW	0.135
Ignition burner power consumption	$P_{ign}$	kW	0
Annual energy consumption	$Q_{HE}$	kWh	-
Sound power level, indoors	$L_{WA}$	dB	49.6
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120
Emissions Class			2
Daily fuel consumption	$Q_{fuel}$	kWh	27.3
Annual fuel consumption	$AFC$	GJ	21.6

<b>Eco Range: Vortex Eco Utility</b>	Symbols	Unit	15-21	21-26	26-35	SYSTEM 15-21	SYSTEM 21-26	SYSTEM 26-35
Condensing boiler			Yes	Yes	Yes	Yes	Yes	Yes
Low temperature boiler			No	No	No	No	No	No
B1 Boiler			No	No	No	No	No	No
Combination heater			No	No	No	No	No	No
Rated heat output	$P_{rated}$	kW	21	26	35	21	26	35
<b>Useful heat output</b>								
At rated heat output and high temperature regime	$P_4$	kW	21	26	35	21	26	35
At 30% of rated heat output and low temperature regime	$P_1$	kW	5.8	7.4	9.6	5.8	7.4	9.6
<b>Auxiliary electricity consumption</b>								
At Full load	$el_{max}$	kW	0.113	0.154	0.146	0.113	0.154	0.146
At part load	$el_{min}$	kW	0.035	0.047	0.045	0.035	0.047	0.045
In standby mode	$P_{SB}$	kW	0	0	0	0	0	0
<b>Useful efficiency</b>								
Seasonal space heating energy efficiency	$\eta_s$	%	92.7	91.7	92.4	92.7	91.7	92.4
At rated heat output and high temperature regime	$\eta_4$	%	92.2	92.4	92.4	92.2	92.4	92.4
At 30% of rated heat output and low temperature regime	$\eta_1$	%	98.4	97.2	97.5	98.4	97.2	97.5
<b>Other items</b>								
Standby heat loss	$P_{stby}$	kW	0.082	0.091	0.09	0.082	0.091	0.09
Ignition burner power consumption	$P_{ign}$	kW	0	0	0	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-	-	-	-
Sound power level, indoors	$L_{WA}$	dB	50.6	50.6	53.7	50.6	50.6	53.7
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120	<120	<120	<120	<120
Emissions Class			2	2	2	2	2	2
Daily fuel consumption	$Q_{fuel}$	kWh	-	-	-	-	-	-
Annual fuel consumption	$AFC$	GJ	-	-	-	-	-	-

<b>Eco Range: Vortex Eco External</b>	Symbols	Unit	15-21	21-26	26-35	SYSTEM 15-21	SYSTEM 21-26	SYSTEM 26-35
Condensing boiler			Yes	Yes	Yes	Yes	Yes	Yes
Low temperature boiler			No	No	No	No	No	No
B1 Boiler			No	No	No	No	No	No
Combination heater			No	No	No	No	No	No
Rated heat output	$P_{rated}$	kW	21	26	35	21	26	35
<b>Useful heat output</b>								
At rated heat output and high temperature regime	$P_4$	kW	21	26	35	21	26	35
At 30% of rated heat output and low temperature regime	$P_1$	kW	5.8	7.4	9.6	5.8	7.4	9.6
<b>Auxiliary electricity consumption</b>								
At Full load	$el_{max}$	kW	0.113	0.154	0.146	0.113	0.154	0.146
At Part load	$el_{min}$	kW	0.035	0.047	0.045	0.035	0.047	0.045
In standby mode	$P_{SB}$	kW	0	0	0	0	0	0
<b>Useful efficiency</b>								
Seasonal space heating energy efficiency	$\eta_s$	%	92.7	91.7	92.4	92.7	91.7	92.4
At rated heat output and high temperature regime	$\eta_4$	%	92.2	92.4	92.4	92.2	92.4	92.4
At 30% of rated heat output and low temperature regime	$\eta_1$	%	98.4	97.2	97.5	98.4	97.2	97.5
<b>Other items</b>								
Standby heat loss	$P_{stby}$	kW	0.082	0.091	0.09	0.082	0.091	0.09
Ignition burner power consumption	$P_{ign}$	kW	0	0	0	0	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-	-	-	-	-
Sound power level, indoors	$L_{WA}$	dB	50.6	50.6	53.7	50.6	50.6	53.7
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120	<120	<120	<120	<120
Emissions Class			2	2	2	2	2	2
Daily fuel consumption	$Q_{fuel}$	kWh	-	-	-	-	-	-
Annual fuel consumption	$AFC$	GJ						

<b>Eco Range:</b>				
<b>Vortex Eco Wall Hung</b>	Symbols	Unit	16-21	SYSTEM 16-21
Condensing boiler			Yes	Yes
Low temperature boiler			No	No
B1 Boiler			No	No
Combination heater			No	No
Rated heat output	$P_{rated}$	kW	21	21
<b>Useful heat output</b>				
At rated heat output and high temperature regime	$P_4$	kW	21	21
At 30% of rated heat output and low temperature regime	$P_1$	kW	6.3	6.3
<b>Auxiliary electricity consumption</b>				
At Full load	$el_{max}$	kW	0.150	0.150
At part load	$el_{min}$	kW	0.07	0.07
In standby mode	$P_{SB}$	kW	0	0
<b>Useful efficiency</b>				
Seasonal space heating energy efficiency	$\eta_s$	%	90.52	90.52
At rated heat output and high temperature regime	$\eta_4$	%	90.8	90.8
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.9	96.9
<b>Other items</b>				
Standby heat loss	$P_{stby}$	kW	0.236	0.236
Ignition burner power consumption	$P_{ign}$	kW	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-
Sound power level, indoors	$L_{WA}$	dB	51.7	51.7
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120
Emissions Class			2	2
Daily fuel consumption	$Q_{fuel}$	kWh	-	-
Annual fuel consumption	$AFC$	GJ	-	-

<b>Eco Range:</b>				
<b>Vortex Eco Wall Hung External</b>	Symbols	Unit	16-21	SYSTEM 16-21
Condensing boiler			Yes	Yes
Low temperature boiler			No	No
B1 Boiler			No	No
Combination heater			No	No
Rated heat output	$P_{rated}$	kW	21	21
<b>Useful heat output</b>				
At rated heat output and high temperature regime	$P_4$	kW	21	21
At 30% of rated heat output and low temperature regime	$P_1$	kW	6.3	6.3
<b>Auxiliary electricity consumption</b>				
At Full load	$el_{max}$	kW	0.150	0.150
At part load	$el_{min}$	kW	0.07	0.07
In standby mode	$P_{SB}$	kW	0	0
<b>Useful efficiency</b>				
Seasonal space heating energy efficiency	$\eta_s$	%	90.52	90.52
At rated heat output and high temperature regime	$\eta_4$	%	90.8	90.8
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.9	96.9
<b>Other items</b>				
Standby heat loss	$P_{stby}$	kW	0.236	0.236
Ignition burner power consumption	$P_{ign}$	kW	0	0
Annual energy consumption	$Q_{HE}$	kWh	-	-
Sound power level, indoors	$L_{WA}$	dB	51.7	51.7
Emissions of nitrogen oxides	$NO_x$	mg/kWh	<120	<120
Emissions Class			2	2
Daily fuel consumption	$Q_{fuel}$	kWh	-	-
Annual fuel consumption	$AFC$	GJ	-	-

# End of Life Information

## General

Grant oil boilers incorporate components manufactured from a variety of different materials. The majority of these materials can be recycled whilst the smaller remainder cannot.

Materials that cannot be recycled must be disposed of according to local regulations using appropriate waste collection and/or disposal services.

## Disassembly

There is little risk to those involved in the disassembly of this product. Please refer to and follow the Health and Safety Information given in the Installation & Servicing Instructions provided with the boiler.

For guidance on the disassembly of the boiler refer to the information given in the Servicing section of the Installation & Servicing Instructions provided with the boiler.

## Recycling

Many of the materials used in Grant oil boilers can be recycled, these are listed in the table below:

<b>Component</b>	<b>Material</b>
Outer casing panels	Mild steel (polyester powder coated)
Primary heat exchanger and baffles	Mild steel
Secondary heat exchanger	Stainless steel
Secondary heat exchanger spirals	Aluminium alloy
Pipework	Copper
Burner body/flange	Aluminium alloy
Burner oil pump	Aluminium alloy/steel
Riello oil burner cover	Plastic
Electrical wiring	Copper/plastic
Thermostats	Copper/plastic
Printed Circuit boards	Copper/plastic

## Disposal

All materials other than those listed above must be disposed of responsibly as general waste.

